

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
 )  
**NARUM ET AL.** )  
 )  
 Serial No. )  
 )  
 Filed: **Concurrently Herewith** )  
 )  
 For: **ANTI-PLASMODIUM COMPOSITIONS** )  
**AND METHODS OF USE** )

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

The citation of information on the attached Form PTO/SA/08A, "Information Disclosure Statement by Applicant" is made pursuant to 37 C.F.R. §§ 1.97 and 1.98.

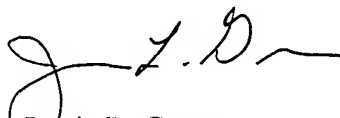
Pursuant to 37 C.F.R. §1.98(d), inasmuch as this application relies on prior application Serial No. 09/924,154 filed August 7, 2001 for an earlier filing date under 35 U.S.C. § 120, no copy of any patent, publication or other information previously cited by or submitted to the Office in such prior application is being provided herewith.

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Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J. L. Greene', with a stylized flourish at the end.

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Our Docket: 05213-0468

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

**Complete if Known**

Application Number

Filing Date

**First Named Inventor**

### Group Art Unit

Examiner Name \_\_\_\_\_

**Concurrently Herewith**

**David L. Narum**

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Attorney Docket Number	05213-0468
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)			Application Number		
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			First Named Inventor	David L. Narum	
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			Examiner Name		
Sheet	2	of	3	Attorney Docket Number	05213-0468
<b>OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
	5	ADAMS, J. H., HUDSON, D. E., TORII, M., WARD, G. E., WELLEMS, T. E., AIKAWA, M., MILLER, L. H. "The Duffy receptor family of Plasmodium knowlesi is located within the merozoites of invasive malaria merozoites." Cell. 63: 141-153. (1990)			
	6	ADAMS, J. H., SIM, B. K. L., DOLAN, S. A., FANG, X., KASLOW, D. C., MILLER, L. H. "A family of erythrocyte binding proteins of malaria parasites." Proc. Natl. Acad. Sci. 89: 7085-7089 (1992).			
	7	CHITNIS, C. E., MILLER, L. H. Identification of the erythrocyte binding domains of Plasmodium vivax and Plasmodium knowlesi proteins involved in erythrocyte invasion. J Exp Med 1994 Aug 1; 180(2) :497-506.			
	8	CAMUS, D., AND T. J. HADLEY. A Plasmodium falciparum antigen that binds to host erythrocytes and merozoites. Science. 1985; 230, no. 4725:553.			
	9	DEANS, J. A., AND W. C. JEANS. 1987. Structural studies on a putative protective Plasmodium knowlesi merozoite antigen. Molecular Biochemical Parasitology. 26:155-166.			
	10	DOLAN, S. A., J. L. PROCTOR, D. W. ALLING, Y. OKUBO, T. E. WELLEMS, AND L. H. MILLER. 1994. Glycophorin B as an EBA-175 independent Plasmodium falciparum receptor of human erythrocytes. Mol Biochem Parasitol. 64:55-63.			
	11	FANG, X., KASLOW, D. C., ADAMS, J. H., MILLER, L. H. "Cloning of the Plasmodium vivax Duffy receptor." Mol. Biochem. Parasitol. 44: 125-132 (1991).			
	12	HADLEY, T. J., ERKMEN, Z., KAUFMAN, B. M., FUTROVSKY, S., MCGUINNIS, M. H., GRAVES, P., SADOFF, J. C., MILLER, L. H., Factors influencing invasion of erythrocytes by Plasmodium falciparum parasites: the effects of an N-acetyl glucosamine neoglycoprotein and an anti-glycophorin antibody. Am J Trop Med Hyg 1986 Sep; 35(5) :898-905.			
	13	HARTIKKA, J., SAWDEY, M., CORNEFERT-JENSEN, F., MARGALITH, M., BARNHART, K., NOLASCO, M., VAHLSING, H. L., MEEK, J., MARQUET, M., HOBART, P., NORMAN, J., AND MANTHORPE, M. 1996. An improved plasmid DNA expression vector for direct injection into skeletal muscle. Hum Gene Ther. 7:1205-17.			
	14	HORUK, R., CHITNIS, C. E., DARBONNE, W. C., COLBY, T. J., RYBICKI, A., HADLEY, T. J., AND MILLER, L. H., 1993. A receptor for the malarial parasite Plasmodium vivax: the erythrocyte chemokine receptor. Science. 261:1182-4.			
	15	LIANG, H., NARUM, D. L., FUHRMANN, S. R., LUU, T., SIM, B. K., 2000. A recombinant baculovirus-expressed Plasmodium falciparum receptor-binding domain of erythrocyte binding protein EBA-175 biologically mimics native protein. Infect Immun Jun; 68(6) :3564-8.			

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<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language translation is attached.

Substitute for Form 1449/A/PTO  <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		<h3 style="text-align: center;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;"></td> </tr> <tr> <td>Filing Date</td> <td>Concurrently Herewith</td> </tr> <tr> <td>First Named Inventor</td> <td>David L. Narum</td> </tr> <tr> <td>Group Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>05213-0468</td> </tr> </table>		Application Number		Filing Date	Concurrently Herewith	First Named Inventor	David L. Narum	Group Art Unit		Examiner Name		Attorney Docket Number	05213-0468
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OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS			
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	16	MILLER, L. H., MASON, S. J., DVORAK, J. A., MCGINNISS, M. H., ROTHMAN, I. K., Erythrocyte receptors for (Plasmodium knowlesi) malaria: Duffy blood group determinants. Science 1975 Aug 15; 189-(4202) :561-3.	
	17	NARUM, D. L., AND THOMAS, A. W. 1994. Differential localization of full-length and processed forms of PF83/AMA-1 an apical membrane antigen of Plasmodium falciparum merozoites. Mol Biochem Parasitol. 67:59-68.	
	18	NARUM, D. L., HAYNES, J. D., FUHRMANN, S., MOCH, K., LIANG, H., HOFFMAN, S. L., AND SIM, B. K. 2000. Antibodies against the plasmodium falciparum receptor binding domain of EBA-175 block invasion pathways that do not involve sialic acids [In Process Citation]. Infect Immun. 68:1964-6.	
	19	ORLANDI, P. A., SIM, B. K., CHULAY, J. D., AND HAYNES, J. D. 1990. Characterization of the 175-kilodalton erythrocyte binding antigen of Plasmodium falciparum. Mol Biochem Parasitol. 40:285-94.	
	20	ORLANDI, P. A., KLOTZ, F. W., AND HAYNES, J. D. "A malaria invasion receptor, the 175-kilodalton erythrocyte binding antigen of Plasmodium falciparum recognizes the terminal neu5Ac((2-3) gal-sequences of glycophorin A." J. Cell Biol. 116:901-909 (1992).	
	21	SIM, B. K., ORLANDI, P. A., HAYNES, J. D., KLOTZ, F. W., CARTER, J. M., CAMUS, D., ZEGANS, M. E., AND CHULAY, J. D. Primary structure of the 175K Plasmodium falciparum erythrocyte binding antigen and identification of a peptide which elicits antibodies that inhibit malaria merozoite invasion. J Cell Biol. 1990; 111, no. 5 Pt 1:1877-1884.	
	22	SIM, B. K. L., CHITNIS, C. E., WASNIOWSKA, K., HADLEY, T. J., MILLER, L. H., "Receptor and ligand domains for invasion of erythrocytes by Plasmodium falciparum. Science. 264:1941-1944. (1994)	
	23	SIM, B. K. L., TOYOSHIMA, T., HAYNES, J. D., AND AIKAWA, M. 1992. Localization of the 175-kilodalton erythrocyte binding antigen in micronemes of Plasmodium falciparum merozoites. Mol Biochem Parasitol. 51:157-9.	
	24	VERNES, A., HAYNES, J. D., TAPCHAI SRI, P., WILLIAMS, J. L., DUTOIT, E., DIGGS, C. L., Plasmodium falciparum strain-specific human antibody inhibits merozoite invasion of erythrocytes. Am J Trop Med Hyg 1984 Mar;33(2) :197-203.	
	25	HADLEY, T.J., "Invasion of erythrocytes by malaria parasites: a cellular and molecular overview." Annu Rev. Microbiol. (1986);40:451-77.	

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